



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-01-06-20 Date: 07-09-19
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub
 Division.
 Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka , Bangalore-
 560064
 Customer's Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 04-09-19
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2,3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 05-09-19

Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.63	—
2	Finess by Air permeability method (m ² /kg, Min)	298.4	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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 Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-06-20 Date: 09/10/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub Division.

Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka , Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-09-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	11/09/2019	09/10/2019	150.67 X 149.63 X 149.09	22545	8.207	538.5	23.9	23.0
2	Drain Bottom Slab Concrete	M20	11/09/2019	09/10/2019	149.23 X 150.35 X 151.29	22436	8.073	496.6	22.1	
3	Drain Bottom Slab Concrete	M20	11/09/2019	09/10/2019	149.42 X 151.56 X 150.23	22646	8.767	521.1	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

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 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub Division.
 Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka, Bangalore-560064
 Customer's Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 18-09-19
 Customer ID : Drain Side Wall Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	16/09/2019	23/09/2019	149.26 X 151.63 X 150.98	22632	8.811	424.7	18.8	18.9
2	Drain Side Wall Concrete	M20	16/09/2019	23/09/2019	151.50 X 150.76 X 150.48	22839	8.654	432.9	19.0	
3	Drain Side Wall Concrete	M20	16/09/2019	23/09/2019	149.35 X 150.70 X 149.18	22507	8.074	424.6	18.9	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/10/2019

Lab ID : CP-2020-01-06-20
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub Division.
 Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka, Bangalore-560064
 Customer's Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 18-09-19
 Customer ID : Drain Side Wall Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/10/2019

Date of test : 14/10/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	16/09/2019	14/10/2019	151.31 X	22677	8.207	528.6	23.3	23.2
					149.86 X					
					151.99					
2	Drain Side Wall Concrete	M20	16/09/2019	14/10/2019	151.28 X	22742	8.073	511.7	22.5	
					150.33 X					
					151.84					
3	Drain Side Wall Concrete	M20	16/09/2019	14/10/2019	151.58 X	22997	8.767	548.7	23.9	
					151.71 X					
					151.75					

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Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub Division.
Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-09-19
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 23/09/2019

Date of test : 23/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	16/09/2019	23/09/2019	150.12 X 149.30 X 150.51	22413	8.811	411.3	18.4	18.7
2	Drain Side Wall Concrete	M20	16/09/2019	23/09/2019	149.07 X 149.88 X 151.33	22343	8.654	422.1	18.9	
3	Drain Side Wall Concrete	M20	16/09/2019	23/09/2019	150.55 X 151.06 X 149.05	22742	8.074	431.2	19.0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-06-20

Date: 07-09-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Unerushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.42	—
5	Bulk Density(Compacted) (Kg/l)	1.47	—
6	Water Absorption(%)	0.38	—

Note:

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-06-20 Date: 06-09-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub Division.
Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka , Bangalore-560064
Customer Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 04-09-19
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 04-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	198	198	4.0	96.0	90-100
3	10 mm	3150	3348	67.0	33.0	25-55
4	4.75 mm	1457	4805	96.1	3.9	0-10
5	Pan	195	5000	100	0	-

R.K. B.V.





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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2020-01-06-20

Date: 06-09-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-01-06-20 Date: 18-09-19

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub Division.

Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka , Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 14/09/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/10/2019

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Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in ward No-01 of Yelahanka Sub Division.
Agency : Sri.P.Ravichandra, No:562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference : EE(YNK.D)E-PMT-19/W.O/0076/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-09-19
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	11/09/2019	09/10/2019	149.10 X 150.64 X 150.77	22460	8.207	517.0	23.0	22.9
2	Drain Bottom Slab Concrete	M20	11/09/2019	09/10/2019	149.89 X 149.31 X 149.54	22380	8.073	499.2	22.3	
3	Drain Bottom Slab Concrete	M20	11/09/2019	09/10/2019	151.38 X 150.18 X 149.87	22735	8.767	530.5	23.3	

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